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A synthetic construct for use as peptide display carrier package (PDCP), said construct comprising a recombinant polynucleotide-chimeric protein complex wherein the chimeric protein has a nucleotide binding portion which comprises a binding domain of a nuclear steroid receptor and a target peptide portion, wherein said recombinant polynucleotide comprises a chimeric-protein encoding portion and a nucleotide sequence motif which is specifically bound by said nucleotide binding portion, and wherein at least the chimeric protein-encoding portion of the recombinant polynucleotide not bound by the chimeric protein nucleotide binding portion is protected by a binding moiety which is protein able to bind to polynucleotides irrespective of the nucleotide sequence, wherein said binding moiety is a viral coat protein, wherein said target peptide portion is displayed externally on the package, wherein said recombinant polynucleotide includes a linker sequence between the nucleotide sequence encoding the nucleotide binding portion and the nucleotide sequence encoding the target peptide portion, wherein said recombinant polynucleotide has two or more nucleotide sequence motifs each of which can be bound by the nucleotide binding portion of the chimeric protein, wherein said nucleotide binding portion is a DNA binding domain of an estrogen or progesterone receptor.

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A synthetic construct for use as peptide display carrier package (PDCP), said construct comprising a recombinant polynucleotide-chimeric protein complex wherein the chimeric protein has a nucleotide binding portion which comprises a binding domain of a nuclear steroid receptor and a target peptide portion, wherein said recombinant polynucleotide comprises a chimeric-protein encoding portion and a nucleotide sequence motif which is specifically bound by said nucleotide binding portion, and wherein at least the chimeric protein-encoding portion of the recombinant polynucleotide not bound by the chimeric protein nucleotide binding portion is protected by a binding moiety which is protein able to bind to polynucleotides irrespective of the nucleotide sequence, wherein said recombinant polynucleotide is bound to said chimeric protein as single stranded DNA, wherein said target peptide portion is located at the N and/or C terminal of the chimeric protein and said construct is produced in a host cell transformed with said recombinant polynucleotide and extruded therefrom without lysis of the host cell.

Respectfully submitted,



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Date: June 11, 2003

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DATE: June 11, 2003